



NATIONAL TRANSPORTATION SAFETY BOARD - **Public Hearing**

Conrail Derailment in Paulsboro, NJ with Vinyl Chloride Release

| | |
|---------|---|
| GROUP | 3 |
| EXHIBIT | |
| AR | |

Agency / Organization

EPA through New Jersey DEP

Title

Environmental Protection Agency (EPA)–
TAGA Readings - Provided by NJ DEP
(NJDEP-0863-0865)

From: [Carl, Anthony](#)
To: [mberg](#) ** PII **
Cc: [Donofrio.Cris](#) ** PII **
Subject: FW: TAGA Data.....
Date: Monday, December 10, 2012 2:42:38 PM
Attachments: [TAGA monitoring summary 11302012_12052012-1.pdf](#)

Here is a copy of the summary data from TAGA Bus readings from 11/30/2012 to 12/5/2012. As has been discussed extensively throughout the response, the TAGA bus has been utilized as a tool to verify elevated AreaRae and MultiRae data. As a result, the TAGA Bus was used primarily in downwind locations to determine the extent of the Vinyl Chloride plume and was therefore directed to those areas where readings were expected to be highest.

From: DOnofrio.Cris@ ** PII **
Sent: Monday, December 10, 2012 1:51 PM
To: Carl, Anthony
Subject: TAGA Data.....

TAGA Monitoring Summary

Vinyl Chloride

This information is for discussion purposes only and subject to the limitations and uncertainties associated with monitoring devices.

| Date | Location | Run Number | Start Time | End Time | Run Average (ppbv) | Run Max (ppbv) |
|------------|---------------|------------|-------------|-------------|--------------------|----------------|
| 11/30/2012 | Paulsboro, NJ | VCL017 | 8:24:42 PM | 9:09:41 PM | 15 | 51 |
| | Paulsboro, NJ | VCL018 | 9:10:22 PM | 9:55:21 PM | 49 | 110 |
| | Paulsboro, NJ | VCL019 | 9:55:59 PM | 10:40:58 PM | 47 | 150 |
| | Paulsboro, NJ | VCL020 | 10:41:33 PM | 11:26:32 PM | 36 | 100 |
| | Paulsboro, NJ | VCL021 | 10:26:58 PM | 11:11:57 PM | 35 | 110 |
| 12/1/2012 | Paulsboro, NJ | VCL022 | 12:12:22 AM | 12:57:21 AM | 18 | 86 |
| | Paulsboro, NJ | VCL023 | 12:57:48 AM | 1:42:47 AM | 37 | 100 |
| | Paulsboro, NJ | VCL024 | 1:43:18 AM | 2:28:17 AM | 55 | 140 |
| | Paulsboro, NJ | VCL025 | 2:29:03 AM | 3:14:02 AM | 60 | 190 |
| | Paulsboro, NJ | VCL026 | 3:14:33 AM | 3:59:32 AM | 49 | 190 |
| | Paulsboro, NJ | VCL027 | 4:00:06 AM | 4:45:05 AM | 50 | 120 |
| | Paulsboro, NJ | VCL028 | 4:45:32 AM | 4:58:50 AM | 70 | 130 |
| | Paulsboro, NJ | VCL029 | 5:00:42 AM | 5:45:41 AM | 32 | 81 |
| | Paulsboro, NJ | VCL030 | 5:47:11 AM | 6:32:10 AM | 48 | 93 |
| | Paulsboro, NJ | VCL031 | 6:31:49 AM | 7:16:48 AM | 40 | 82 |
| | Paulsboro, NJ | VCL032 | 7:17:16 AM | 7:51:03 AM | 26 | 93 |
| | Paulsboro, NJ | VCL034 | 9:17:43 AM | 10:02:42 AM | 2.9 | 29 |
| | Paulsboro, NJ | VCL035 | 10:09:18 AM | 10:54:17 AM | 1.7 | 10 |
| | Paulsboro, NJ | VCL036 | 10:56:33 AM | 11:41:32 AM | 1.6 | 12 |
| 12/2/2012 | Paulsboro, NJ | VCL040 | 6:53:35 AM | 7:17:15 AM | 1.8 | 21 |
| | Paulsboro, NJ | VCL041 | 7:26:26 AM | 8:11:25 AM | 14 | 310 |
| | Paulsboro, NJ | VCL042 | 8:17:39 AM | 9:02:38 AM | 18 | 120 |
| | Paulsboro, NJ | VCL043 | 9:04:38 AM | 9:46:42 AM | 16 | 210 |
| | Paulsboro, NJ | VCL044 | 10:17:56 AM | 10:31:16 AM | 4.3 | 16 |
| | Paulsboro, NJ | VCL046 | 11:04:23 AM | 11:49:22 AM | 1 | 16 |
| | Paulsboro, NJ | VCL047 | 11:51:12 AM | 12:36:11 PM | 23 | 150 |
| | Paulsboro, NJ | VCL048 | 12:37:43 PM | 1:22:42 PM | 48 | 260 |
| | Paulsboro, NJ | VCL049 | 1:28:41 PM | 1:57:20 PM | 61 | 320 |
| | Paulsboro, NJ | VCL050 | 1:59:04 PM | 2:44:03 PM | 39 | 540 |
| | Paulsboro, NJ | VCL051 | 3:14:19 PM | 3:59:18 PM | 1.4 | 55 |
| | Paulsboro, NJ | VCL052 | 4:00:59 PM | 4:45:58 PM | 0.86 | 15 |
| | Paulsboro, NJ | VCL053 | 4:47:11 PM | 5:32:10 PM | 0.9 | 11 |
| | Paulsboro, NJ | VCL054 | 5:33:13 PM | 6:18:12 PM | 0.95 | 13 |
| | Paulsboro, NJ | VCL055 | 6:40:08 PM | 7:22:59 PM | 200 | 2600 |
| | Paulsboro, NJ | VCL056 | 7:26:27 PM | 8:11:26 PM | 39 | 410 |
| | Paulsboro, NJ | VCL057 | 8:13:51 PM | 8:57:31 PM | 2 | 21 |
| | Paulsboro, NJ | VCL058 | 9:02:40 PM | 9:47:21 PM | 1 | 12 |
| | Paulsboro, NJ | VCL059 | 9:50:41 PM | 10:35:00 PM | 1.1 | 14 |
| | Paulsboro, NJ | VCL060 | 10:53:06 PM | 11:36:51 PM | 4.3 | 51 |
| | Paulsboro, NJ | VCL061 | 11:41:03 PM | 12:04:23 AM | 170 | 1500 |

The TAGA readings are instantaneous measurements that we are assuming are conservatively representative of concentrations that can be quickly compared to a relevant indicator value for health and safety purposes.

NJDEP-0864

TAGA Monitoring Summary

Vinyl Chloride

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| Date | Location | Run Number | Start Time | End Time | Run Average (ppbv) | Run Max (ppbv) |
|-----------|---------------|------------|-------------|-------------|--------------------|----------------|
| 12/3/2012 | Paulsboro, NJ | VCL065 | 1:17:30 AM | 2:01:37 AM | 220 | 2500 |
| | Paulsboro, NJ | VCL066 | 2:03:39 AM | 2:48:38 AM | 76 | 480 |
| | Paulsboro, NJ | VCL067 | 2:50:32 AM | 3:31:13 AM | 4.6 | 50 |
| | Paulsboro, NJ | VCL068 | 4:05:53 AM | 4:50:33 AM | 4 | 43 |
| | Paulsboro, NJ | VCL069 | 4:52:36 AM | 5:07:44 AM | 2.9 | 21 |
| | Paulsboro, NJ | VCL071 | 5:53:48 AM | 6:38:47 AM | 92 | 3400 |
| | Paulsboro, NJ | VCL072 | 6:41:20 AM | 7:26:19 AM | 830 | 3300 |
| | Paulsboro, NJ | VCL073 | 7:28:03 AM | 8:03:20 AM | 450 | 3500 |
| | Paulsboro, NJ | VCL074 | 9:18:02 AM | 10:03:01 AM | 4 | 38 |
| | Paulsboro, NJ | VCL075 | 10:05:01 AM | 10:36:52 AM | 3.9 | 36 |
| | Paulsboro, NJ | VCL077 | 1:25:35 PM | 2:10:34 PM | 6.5 | 68 |
| | Paulsboro, NJ | VCL078 | 2:13:52 PM | 2:42:15 PM | 5 | 40 |
| | Paulsboro, NJ | VCL079 | 5:12:17 PM | 5:57:16 PM | 3100 | 41000 |
| | Paulsboro, NJ | VCL081 | 7:40:33 PM | 8:31:42 PM | 360 | 6900 |
| 12/4/2012 | Paulsboro, NJ | VCL083 | 7:37:48 AM | 8:22:47 AM | 260 | 2100 |
| | Paulsboro, NJ | VCL084 | 8:24:35 AM | 9:00:43 AM | 76 | 930 |
| | Paulsboro, NJ | VCL085 | 3:41:43 PM | 4:26:42 PM | 2.7 | 20 |
| | Paulsboro, NJ | VCL086 | 4:32:05 PM | 5:17:04 PM | 720 | 6400 |
| | Paulsboro, NJ | VCL087 | 9:21:32 PM | 10:06:31 PM | 1.7 | 11 |
| | Paulsboro, NJ | VCL088 | 10:12:15 PM | 10:38:16 PM | 2.1 | 10 |
| 12/5/2012 | Paulsboro, NJ | VCL092 | 6:06:33 AM | 7:06:32 AM | 3.7 | 160 |
| | Paulsboro, NJ | VCL093 | 12:56:59 PM | 1:56:58 PM | 3.1 | 33 |
| | Paulsboro, NJ | VCL094 | 1:58:20 PM | 2:44:43 PM | 1.9 | 15 |

The TAGA readings are instantaneous measurements that we are assuming are conservatively representative of concentrations that can be quickly compared to a relevant indicator value for health and safety purposes.

NJDEP-0865